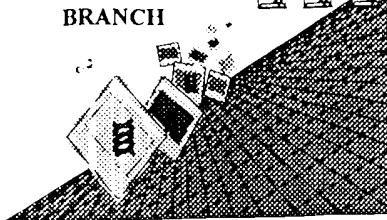


0521

BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/923,844

Source: OPE

Date Processed by STIC: 8/16/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 3.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO).

Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/923,844

DATE: 08/16/2001
TIME: 12:54:02

Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\08162001\I923844.raw

4 <110> APPLICANT: Bao, Zhongmeng
 5 Lu, Guihua
 7 <120> TITLE OF INVENTION: Sclerotinia-inducible Genes and
 8 Promoters and Their Uses
 10 <i30> FILE REFERENCE: 35718/234631
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/923,844
 C--> 12 <141> CURRENT FILING DATE: 2001-08-07
 12 <150> PRIOR APPLICATION NUMBER: US 60/224,603
 13 <151> PRIOR FILING DATE: 2000-08-11
 15 <160> NUMBER OF SEQ ID NOS: 20
 17 <170> SOFTWARE: FastSEQ for Windows Version 4.0

Does Not Comply
Barcode Diskette Needed

ERRORED SEQUENCES

128 <210> SEQ ID NO: 2
 129 <211> LENGTH: 371
 130 <212> TYPE: PRT
 131 <213> ORGANISM: Helianthus annuus
 133 <400> SEQUENCE: 2
 134 Met Glu Phe Leu Lys Ala Pro Thr Leu Leu Leu Val Ile Phe Ser Leu
 135 1 5 10 15
 136 Ala Ile Cys Ser Pro Ile Ser Ala Gln Asn Lys Gly Gly Tyr Trp Pro
 137 20 25 30
 138 Ser Trp Ala Gln Asp Phe Leu Pro Pro Ser Asn Ile Gln Thr Ala Tyr
 139 35 40 45
 140 Phe Thr His Val Tyr Tyr Ala Phe Leu Ser Pro Asn Asn Val Thr Phe
 141 50 55 60
 142 Gln Phe Asp Val His Arg Thr Thr Ala Ser Ala Leu Asn Ser Phe Asn
 143 65 70 75 80
 144 Thr Ala Leu His Gly Lys Asn Pro Pro Val Lys Thr Leu Phe Ser Ile
 145 85 90 95
 146 Gly Gly Gly Ser Ala Gly Val Lys Gln Leu Phe Ser Lys Leu Ala Ser
 147 100 105 110
 148 Ser Pro Gly Ser Arg Ala Ala Phe Ile Arg Ser Thr Ile Gln Val Ala
 149 115 120 125
 150 Arg Asn Tyr Tyr Phe Asp Gly Ala Asp Leu Asp Trp Glu Tyr Pro Glu
 151 130 135 140
 152 Thr Gln Thr Asp Met Asn Asn Phe Gly Leu Leu Asp Glu Trp Arg
 153 145 150 155 160
 154 Val Ala Val Asn Asn Glu Ala Thr Ser Thr Gly Lys Pro Arg Leu Leu
 155 165 170 175
 156 Leu Ser Ala Ala Thr Arg His Glu Pro Glu Val Arg Asp Asn Gly Val
 157 180 185 190
 158 Ala Lys Tyr Pro Val Ala Ser Ile Asn Lys Asn Leu Asp Gly Ile Asn
 159 195 200 205
 160 Ala Met Cys Tyr Asp Tyr His Gly Pro Trp Thr Pro Asp Ala Thr Gly

See p. 4

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/923,844

DATE: 08/16/2001
TIME: 12:54:02

Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\08162001\I923844.raw

161	210	215	220	
162 Ala	Pro Ala Ala Leu Tyr Asn Pro Asn Gly Ser	Leu Ser Thr Ser Asn		
163 225	230	235	240	
164 Gly	Leu Gln Ser Trp Ile Ser Ala Gly Ile Gln Arg Gln Lys	Leu Val		
165	245	250	255	
166 Met	Gly Met Pro Leu Tyr Gly Trp Thr Trp Lys	Leu Lys Asn Pro Ser		
167	260	265	270	
168 Val	Asn Gly Ile Gly Ala Pro Ala Ala Gly Ile Gly Pro	Gly Asn Glu		
169	275	280	285	
170 Gly	Ala Met Leu Tyr Ser Glu Val Gln Gln Phe Asn Ala Gln Asn Asn			
171	290	295	300	
172 Ala	Arg Val Val Tyr Asp Thr Gln Thr Val Ser Tyr Tyr Ser Tyr Ser			
173 305	310	315	320	
174 Gly	Thr Thr Trp Ile Gly Tyr Asp Asp Val Asn Ser Val Gln Arg Lys			
175	325	330	335	
176 Val	Gln Tyr Ala Lys Ser Leu Asn Ile Gly Gly Tyr Phe Phe Trp Thr			
E--> 177	340	345	350	A Ala Val Gly Asp Gln Asp Trp Lys
221 <210> SEQ ID NO: 4				
222 <211> LENGTH: 97				
223 <212> TYPE: PRT				
224 <213> ORGANISM: Helianthus annuus				
226 <400> SEQUENCE: 4				
227 Met Lys Ala Pro Thr Met Ile Cys Phe Leu Val Ala Val Ile Ala Ala				
228 1	5	10	15	
229 Met Met Val Phe Met Gly Gln Leu Pro Ala Ala Thr Ala Val Thr Cys				
230	20	25	30	
231 Asn Tyr Met Glu Leu Val Pro Cys Ala Gly Ala Ile Ser Ser Ser Gln				
232	35	40	45	
233 Pro Pro Ser Gly Ser Cys Cys Ser Lys Val Arg Glu Gln Arg Pro Cys				
234	50	55	60	
235 Phe Cys Gly Tyr Leu Arg Asn Pro Ser Leu Arg Gln Phe Val Ser Pro				
E--> 236	70	75	80	A Ala Ala Ala Gln Lys Ile Ala Ser
238 <210> SEQ ID NO: 5				
239 <211> LENGTH: 849				
240 <212> TYPE: DNA				
241 <213> ORGANISM: Helianthus annuus				
243 <400> SEQUENCE: 5				
244 cgtcgtttcg cttgcagggg gataaaaagat aatatcatga tcaccattca tcacgcctaa				60
245 aattcctcct cttagtcaat tgtgaatatt ttgttaattat tgtgttagact ataactgtta				120
246 tgtctttgca tatatttctc cttgttaatta gccttgtatt ccagtatata atgatatcaa				180
247 aactctctaa tcaagcagag agagttccct gaattacatc accgctgccaa ttttagtcca				240
248 ctaagttaac ttcatccatt aattttgta acgtgaaagg aaattcggtc attttctatg				300
249 gccgaattgc cctttagtt cacaaaatata catataaaac caccgaattt ccgttctcgt				360
250 taacagaaaa aatgaatgaa gttAACCCAG tggactaaaa tygcaacgat gaaaccattt				420
251 tggatccaca ggcggaaaaat gaaacttttg gactaaactg gcgaaaaata aaacttttgg				480
252 actaaactac atgaactaaa atggctttta actaaatttt aataaccgtt ttaattttat				540
253 aaagagaaaa taaactttac aaaaagcatc gtttgtctat tttataaaaga ttaaagttac				600
254 ttgcacgttc aaacatatgt tactagatga atcaagagtc atgtacaact ctatgttttag				660
255 ataaggttac tagatgaata tgagttagtc atctataagt ctatacttag aaaggtaaaa				720

R 4

P 4

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/923,844

DATE: 08/16/2001
TIME: 12:54:02

Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\08162001\I923844.raw

E--> 256

gtcaatgatt tgtattgaat actgtttgtta gttgaattca taaaagcttt gaatactgtt	780	tgttagttgaa ttcataaaaag
258 <210> SEQ ID NO: 6		↑
259 <211> LENGTH: 1089		
260 <212> TYPE: DNA		
261 <213> ORGANISM: Helianthus annuus		
263 <400> SEQUENCE: 6		
264 atcctactac ctcaaacttt atctaattca tcaacacaac ggagggttgg ttatatttgt	60	
265 ttggccatc caaaaggaca aaaatgcact tcataatttaac aaaaaaaaaa aaaaaaaaad	120	
266 ctaagttgt gattttggat aaaatgacaa acaaaaggac aaaaatgcac ttcatcttaa	180	
267 caaaaaaaaaa actgagttag taattttggat gaaaacgaca aaaaaagaca aacctgaaag	240	
268 attcaaatgc aaaaaaaaaat tattttggat gaaacacgca tatatgatca aacccaagag	300	
269 acgattttaa tattttactc gaaattttaa aagaagttaa tatttagacag gaatcatgtt	360	
270 agagacatat gccaaaccta ttaattttot aagtcaaac aaaaatctat tatttttcc	420	
271 aaaccacagc tataatttat gtaattttat ctctataaat ggacaaagaa taaaagttt	480	
272 ctacaaacgg taacaacaag gaagctaccc tcgtttgaa gatagttaa acaataattc	540	
273 aactactttc taactacttt tctcacaaga cttaattttc cacacacatc tttatgacta	600	
274 aatctaccat atgtgatggg ccagtcaacc attaataatgt cttaaccac aagtccgtaa	660	
275 accggaccat cagccacttg gccacggcg cagcttagt gaaaccgggg gtgcacaacc	720	
276 cctctaattgt ttccgtttaga agtcaaaat ttacatttt tcgtccgaaa atttcgccc	780	
277 accagaacct ttagtcaaac ttccactg cacttgccc aatgttctat taaggtttt	840	
278 attttatttt tattttttt tataacgatt ccaaaaattt ttggacata tacatctgac	900	
279 atgcgttata tgttagatata gaatttgaac tcgcaacctt ttaattatac gatacatcac	960	

E--> 280

caccttagatt tgaattctca ttggcccaa tggtctataa ataatgcacc aaccctcag	1020	tttaaaccac caccactaca
	↑	

09/92 3,844

4

<210> 2
<211> 371
<212> PRT
<213> Helianthus annuus

<400> 2

Met	Glu	Phe	Leu	Lys	Ala	Pro	Thr	Leu	Leu	Leu	Val	Ile	Phe	Ser	Leu	1							
5								10			15	^{Hydro} Trp	Ala	Ile	Cys	Ser	Pro	Ile	Ser	Ala	each		
Gln	Asn	Lys	Gly	Gly	Tyr	Trp	Pro				20						25				line		
30					Ser	Trp		Ala	Gln	Asp	Phe	Leu	Pro	Pro	Ser	Asn	Ile	Gln	Thr	Ala	Tyr	arg	
35							40					45					Phe	Thr	His	Val	Tyr	Tyr	after
Ala	Phe	Leu	Ser	Pro	Asn	Asn	Val	Thr	Phe		50						55					last amino acid	
60					Gln	Phe	Asp	Val	His	Arg	Thr	Thr	Ala	Ser	Ala	Leu	Asn	Ser	Phe			return after	
Asn65							70				75					80	Thr	Ala	Leu			number	
His	Gly	Lys	Asn	Pro	Pro	Val	Lys	Thr	Leu	Phe	Ser	Ile				85					on each		
90							95	Gly	Gly	Gly	Ser	Ala	Gly	Val	Lys	Gln	Leu	Phe	Ser	Lys	line		
Leu	Ala	Ser				100					105					110	Ser				acid		
Pro	Gly	Ser	Arg	Ala	Ala	Phe	Ile	Arg	Ser	Thr	Ile	Gln	Val	Ala		115					number		
120						125				Arg	Asn	Tyr	Tyr	Phe	Asp	Gly	Ala	Asp	Leu	Asp	on each		
Trp	Glu	Tyr	Pro	Glu		130					135					140					line		
Thr	Gln	Thr	Asp	Met	Asn	Asn	Phe	Gly	Leu	Leu	Leu	Asp	Glu	Trp	Arg	145							
150							155				160	Val	Ala	Val	Asn	Asn	Glu	Ala	Thr	Ser			
Thr	Gly	Lys	Pro	Arg	Leu	Leu					165					170							
175		Leu	Ser	Ala	Ala	Thr	Arg	His	Glu	Pro	Glu	Val	Arg	Asp	Asn	Gly	Val						
180						185					190				Ala	Lys	Tyr	Pro	Val	Ala	Ser		
Ile	Asn	Lys	Asn	Leu	Asp	Gly	Ile	Asn			195					200							
205					Ala	Met	Cys	Tyr	Asp	Tyr	His	Gly	Pro	Trp	Thr	Pro	Asp	Ala	Thr	Gly			
210						215					220					Ala	Pro	Ala	Ala	Leu			
Tyr	Asn	Pro	Asn	Gly	Ser	Leu	Ser	Thr	Ser	Asn	225					230							
235						240	Gly	Leu	Gln	Ser	Trp	Ile	Ser	Ala	Gly	Ile	Gln	Arg	Gln	Lys			
Leu	Val					245					250					255	Met	Gly					
Met	Pro	Leu	Tyr	Gly	Trp	Thr	Trp	Lys	Leu	Lys	Asn	Pro	Ser			260							
265						270			Val	Asn	Gly	Ile	Gly	Ala	Pro	Ala	Ala	Gly	Ile	Gly			
Pro	Gly	Asn	Glu			275					280					285							
Gly	Ala	Met	Leu	Tyr	Ser	Glu	Val	Gln	Gln	Phe	Asn	Ala	Gln	Asn	Asn		290						
295						300						Ala	Arg	Val	Val	Tyr	Asp	Thr	Gln	Thr	Val		
Ser	Tyr	Tyr	Ser	Tyr	Ser	305					310					315							
320	Gly	Thr	Thr	Trp	Ile	Gly	Tyr	Asp	Asp	Val	Asn	Ser	Val	Gln	Arg	Lys							
325						330					335	Val	Gln	Tyr	Ala	Lys	Ser	Leu	Asn				
Ile	Gly	Gly	Tyr	Phe	Phe	Trp	Thr				340					345							
350					Ala	Val	Gly	Asp	Gln	Asp	Trp	Lys	Ile	Ser	Arg	Leu	Ala	Ser	Gln	Thr			
355						360					365				Trp	Thr	Ala		370				

Please make similar edits to

figs. 4-6, the same
format etc.

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/923,844

DATE: 08/16/2001
TIME: 12:54:03

Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\08162001\I923844.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:177 M:252 E: No. of Seq. differs, <211>LENGTH:Input:371 Found:352 SEQ:2
L:236 M:252 E: No. of Seq. differs, <211>LENGTH:Input:97 Found:80 SEQ:4
L:256 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:13
L:256 M:252 E: No. of Seq. differs, <211>LENGTH:Input:849 Found:720 SEQ:5
L:280 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:13
L:280 M:252 E: No. of Seq. differs, <211>LENGTH:Input:1089 Found:960 SEQ:6